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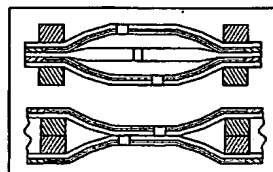
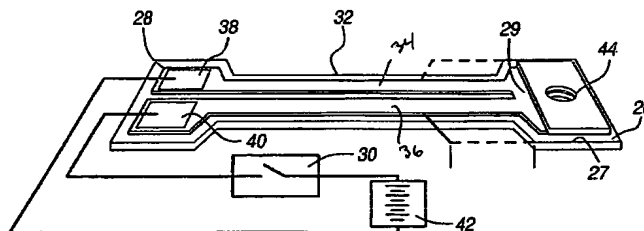
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[Continued on next page]

(54) Title: PRESTRAINED THIN-FILM SHAPE MEMORY ACTUATOR USING POLYMERIC SUBSTRATES



(57) Abstract: A method for producing a plurality of thin film actuators is disclosed. The method includes depositing a film of a shape memory alloy material onto a polyimide film to form a shape memory alloy construction. The shape memory alloy construction is strained from 2 to 8%. Post processing is conducted on the shape memory alloy construction after the step of imparting a 2 to 8% strain. This post processing can be the deposition of additional layers of the slicing of the actuators. Various shape memory metal actuators are disclosed.



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